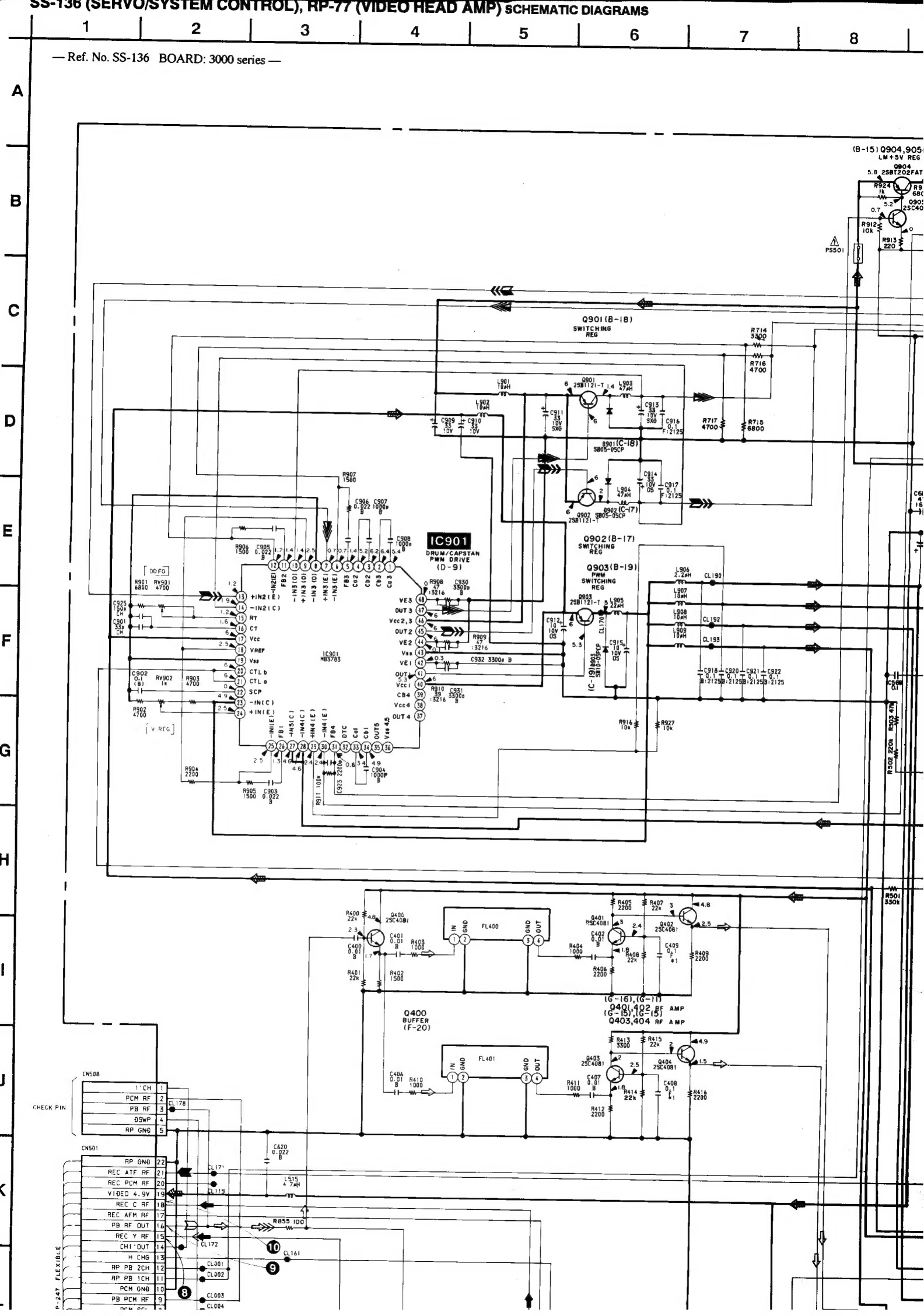
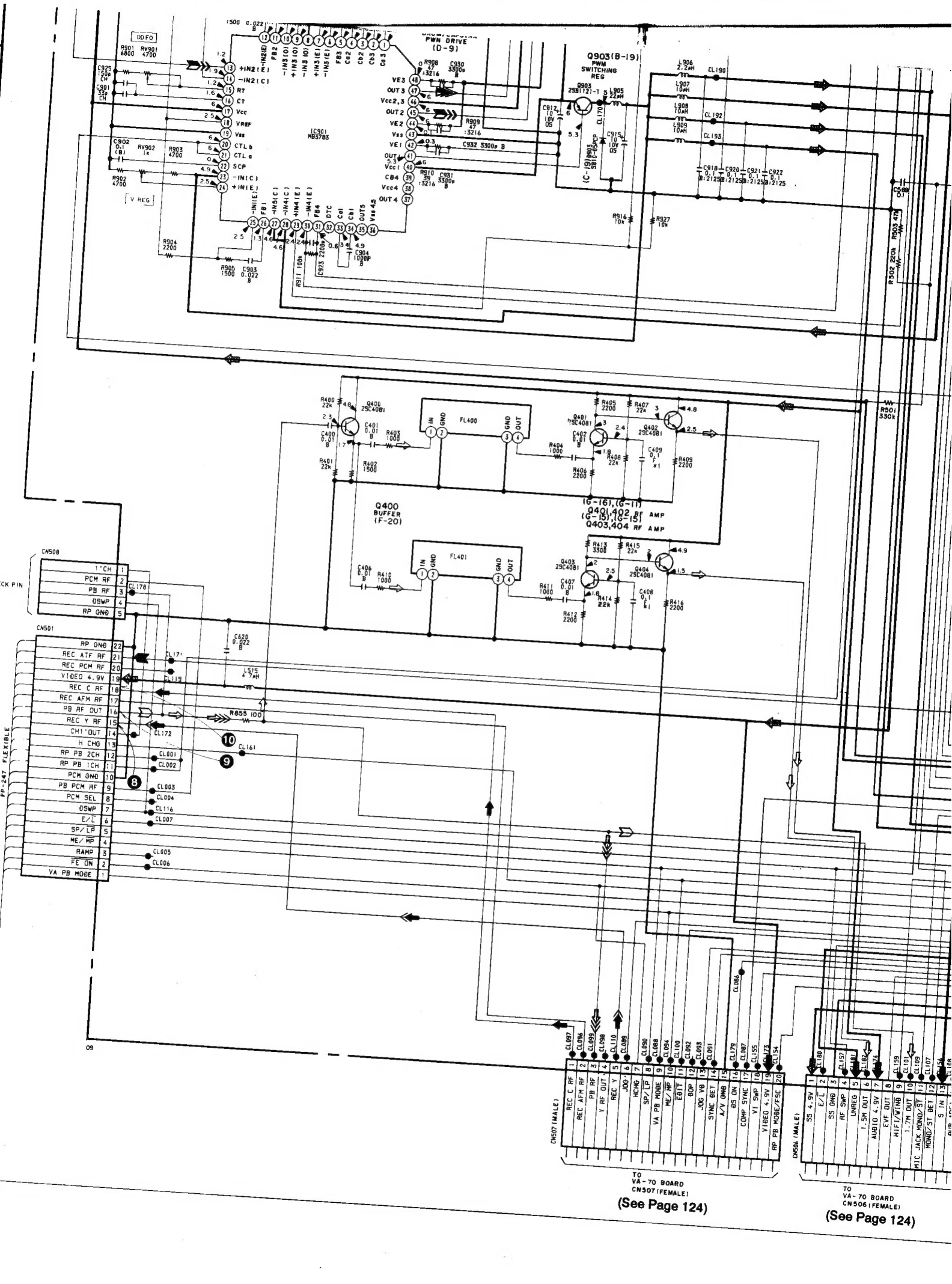
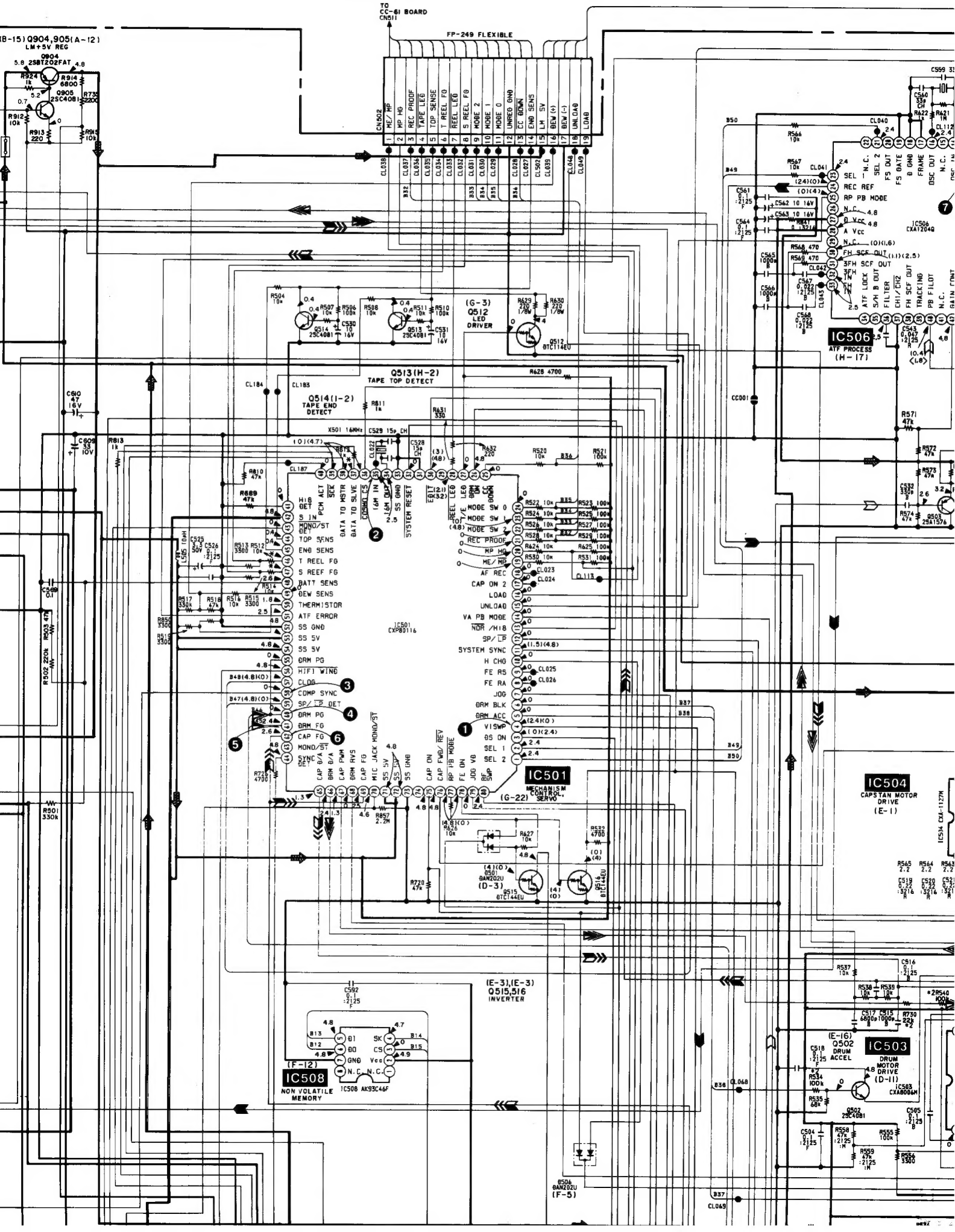
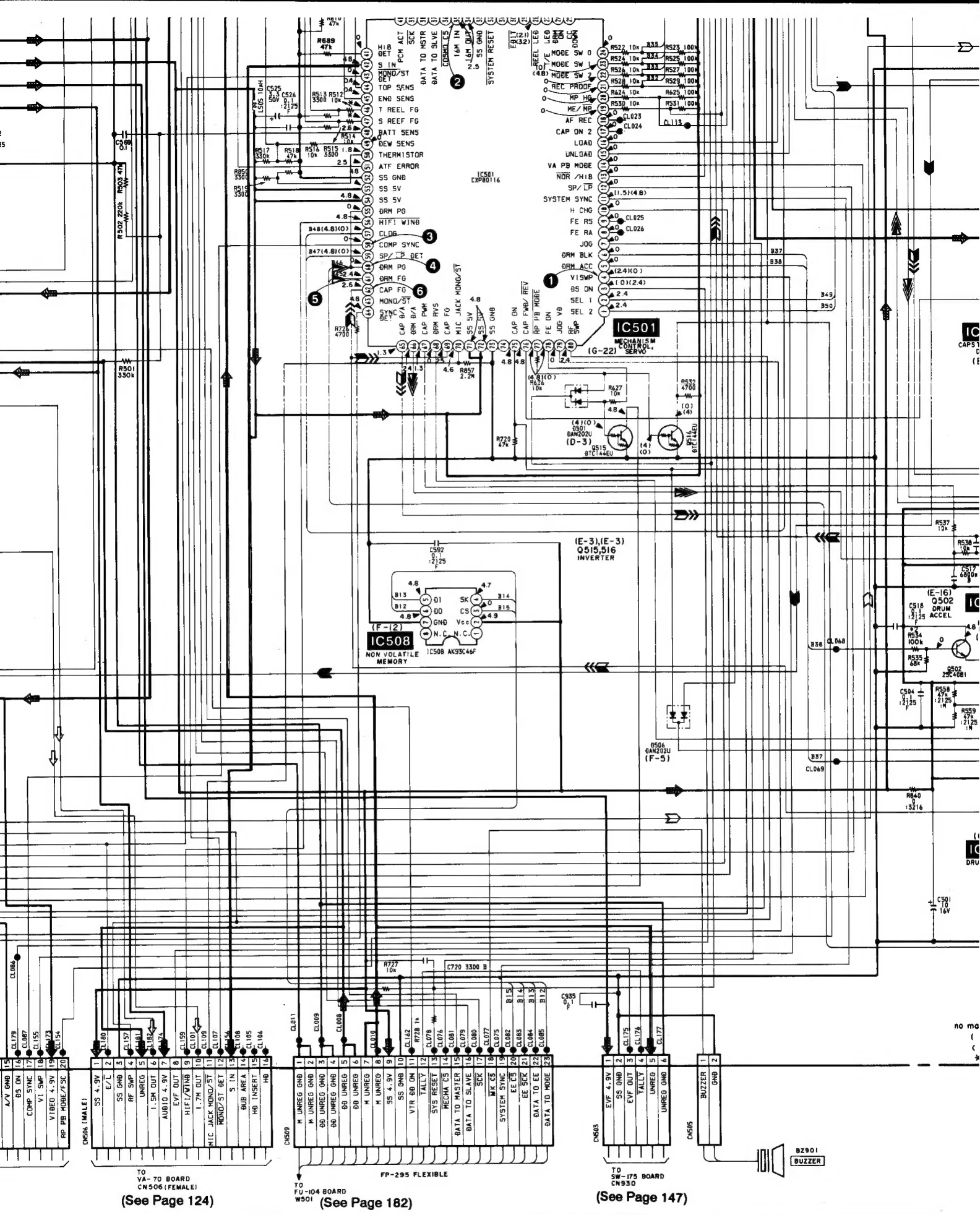
— Ref. No. SS-136 BOARD: 3000 series —

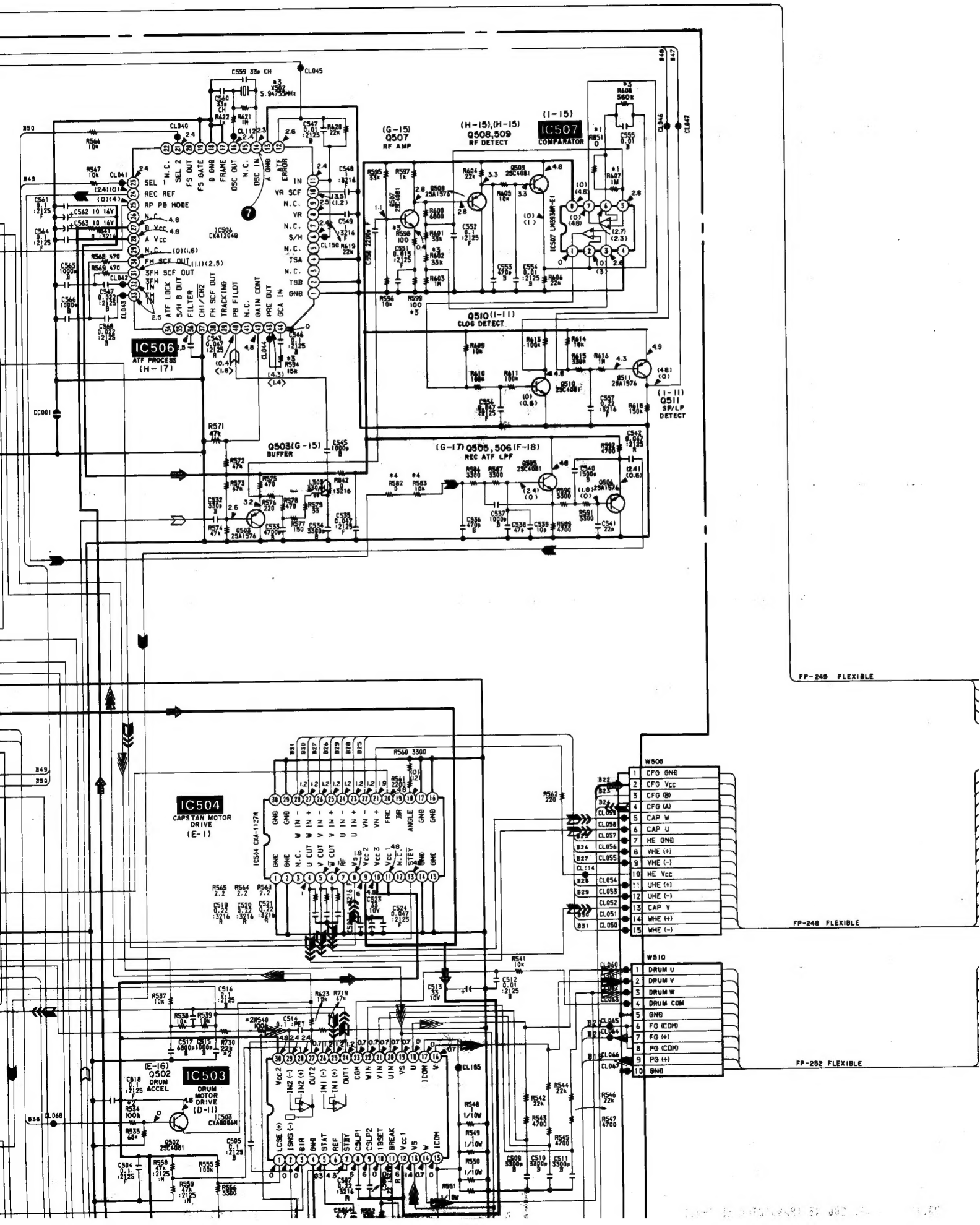


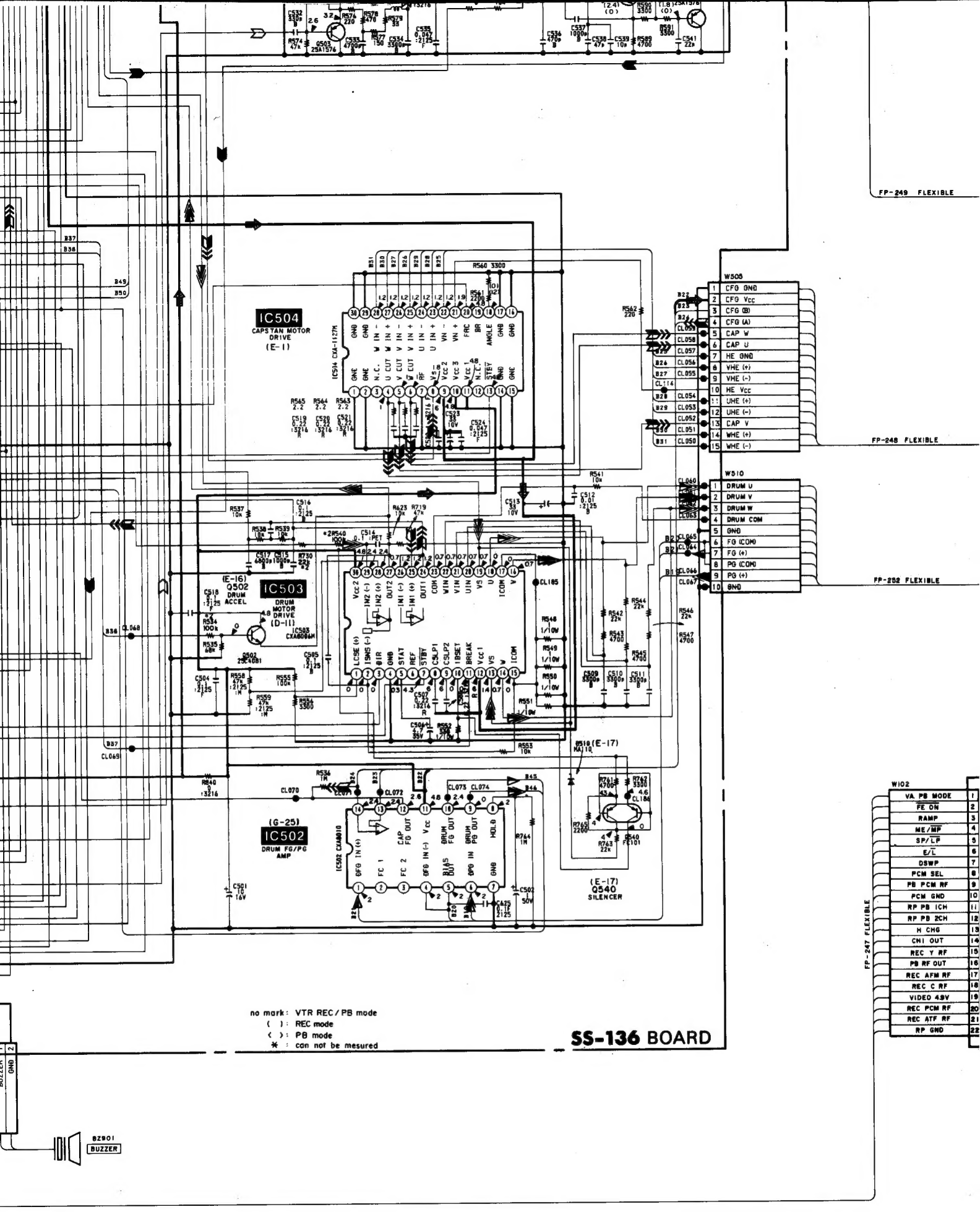

IC901
M63785
PWM DRIVE
(D-9)
Q903(B-19)
PWM
SWITCHING
REG
Q903
2SB1121-T
V REG
Q400
BUFFER
(F-20)
FL400
FL401
Q401,402 RF AMP
(G-16),(G-17)
Q403,404 RF AMP
(G-15),(G-15)
CN508
CN501
FP-247 FLEXIBLE
1ST CH
PCM RF
PB RF
DSWP
RP GND
RP GND
REC ATF RF
REC PCM RF
VIDEO 4.9V
REC C RF
REC AFM RF
PB RF OUT
REC Y RF
CH1 OUT
H CHG
RP PB 2CH
RP PB 1CH
PCM GND
PB PCM RF
PCM SEL
DSWP
E/L
SP/LP
ME/MP
RAMP
FE ON
VA PB MODE
CN507 (MALE)
REC C RF
REC AFM RF
PB RF
Y RF OUT
REC Y
JOG
HCHG
SP/LP
VA PB MODE
ME/MP
EDIT
SCP
JOG V6
SYNC DET
A/V GND
5S ON
COMP SYNC
V1 SWP
VIDEO 4.9V
RP PB MODE/FSC
TO
VA-70 BOARD
CN507 (FEMALE)
(See Page 124)
CN506 (MALE)
5S 4.9V
E/L
5S GND
RF SWP
UNREG
1.5H OUT
AUDIO 4.9V
EVF OUT
HIFI/WIND
1.7M OUT
MIC JACK MONO/ST
MONO/ST DET
S IN
TO
VA-70 BOARD
CN506 (FEMALE)
(See Page 124)

(See Page 162)


TO CC-61 BOARD CN511
FP-249 FLEXIBLE
CN502
ME/MP
MP HG
REC PROOF
TAPE LEG
TOP SENSE
T REEL FG
REEL LEG
S REEL FG
MODE 2
MODE 1
MODE 0
UNREG GND
CC GOWN
END SENS
LM 5V
DEW (+)
DEW (-)
UNLOAD
LOAD
(B-15) Q904,905 (A-12)
LM+5V REG
Q904 2SB1202FAT
Q905 2SC4081
Q514 2SC4081
Q513 2SC4081
(G-3) Q512 LED DRIVER
Q512 DTC114EU
Q513 (H-2) TAPE TOP DETECT
Q514 (I-2) TAPE END DETECT
X501 16MHz
C529 15p CH
IC501 CXP80116
IC501 MECHANISM CONTROL, SERVO
(G-22)
IC506 ATF PROCESS
(H-17)
IC504 CAPSTAN MOTOR DRIVE
(E-1)
IC503 DRUM MOTOR DRIVE
(D-11)
IC508 NON VOLATILE MEMORY
(F-12)
IC508 AK93C46F
Q501 DAN202U
(D-3)
Q515 DTC144EU
Q516 DTC144EU
(E-3),(E-3) Q515,516 INVERTER
Q502 DRUM ACCEL
(E-6)
Q503 2SA1576
Q504 2SC4081
Q506 DAN202U
(F-5)
HI8 DET
PCM ACT
SEC
5 IN
MONO/ST DET
TOP SENS
END SENS
T REEL FG
S REEF FG
BATT SENS
DEW SENS
THERMISTOR
ATF ERROR
SS GND
SS 5V
SS 5V
DRM PG
HIFI WIND
CLOG
COMP SYNC
SP/LP DET
DRM PG
DRM FG
CAP FG
MONO/ST
SYNC DET
DATA TO MSTR
DATA TO SLVE
COMMD CS
16M IN
16M OUT
SS GND
SYSTEM RESET
REEL LEG
DRM CLK
CC GOWN
MODE SW 0
MODE SW 1
MODE SW 2
REC PROOF
MP HG
ME/MP
AF REC
CAP ON 2
LOAD
UNLOAD
VA PB MODE
NOR/HI8
SP/LP
SYSTEM SYNC
H CHG
FE RS
FE RA
JOG
DRM BLK
DRM ACC
VISWP
OS ON
SEL 1
SEL 2
CAP B/A
DRM B/A
CAP PWM
DRM RVS
CAP FG
MIC JACK MONO/ST
SS 5V
SS 5V
SS GND
CAP ON
CAP FWD/REV
AP PB MODE
FE ON
JOG VB
REC SWP
SEL - N.C.
REC REF
AP PB MODE
N.C.
A Vcc
N.C.
FH SCF OUT
3FH SCF OUT
3FH IN
ATF LOCK
S/H B OUT
FILTER
CH1/CH2
FH SCF OUT
TRACKING
PB FILOT
N.C.
GAIN CONT
FS GATE
D GND
FRAME
DSC OUT
N.C.
SEL 2

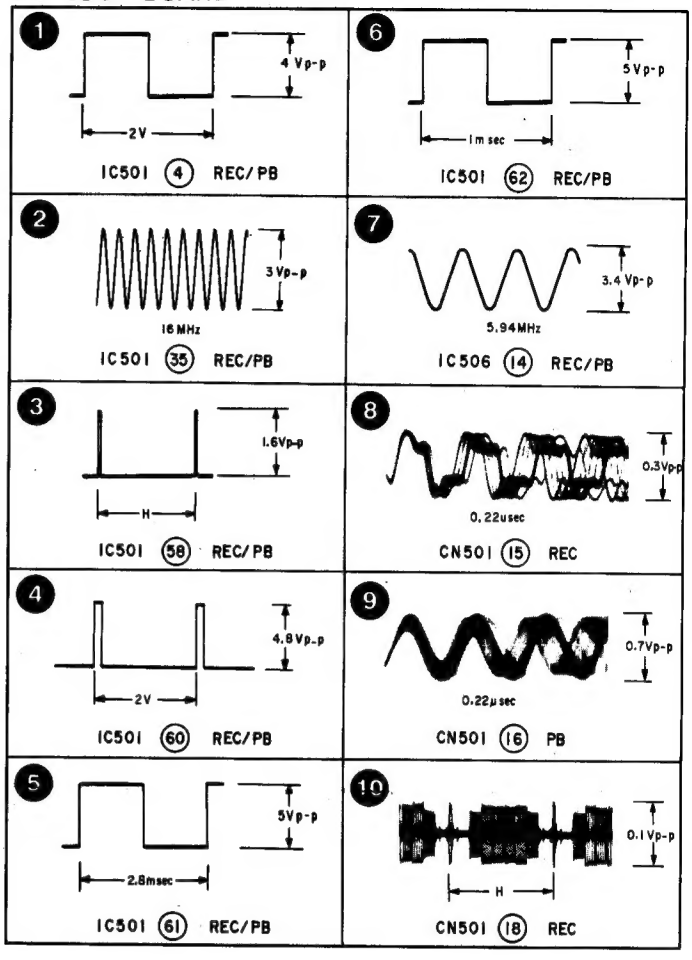

IC501
MECHANISM CONTROL, SERVO
(G-22)
IC508
NON VOLATILE MEMORY
(F-12)
(E-3),(E-3)
Q515,516
INVERTER
(E-16)
Q502
DRUM ACCEL
Q501
Q504
Q515
Q516
BZ901
BUZZER
TO VA-70 BOARD CN506 (FEMALE)
(See Page 124)
TO FU-104 BOARD W501
(See Page 182)
FP-295 FLEXIBLE
TO SW-175 BOARD CN930
(See Page 147)

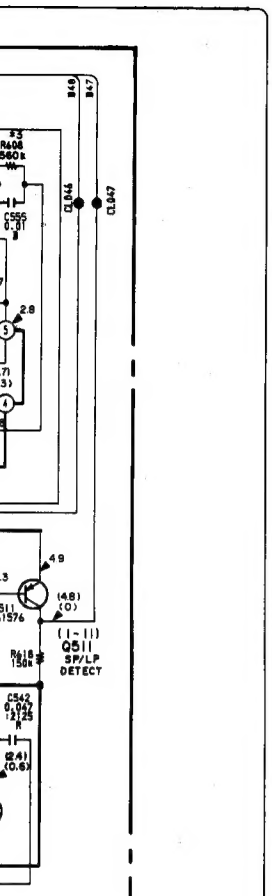

IC506
ATF PROCESS
(H-17)
IC507
COMPARATOR
(I-15)
Q507
RF AMP
(G-15)
Q508,509
RF DETECT
(H-15),(H-15)
Q510(I-11)
CLOG DETECT
Q511
SP/LP
DETECT
(I-11)
Q503(G-15)
BUFFER
(G-17)Q505,506(F-18)
REC ATF LPF
IC504
CAPSTAN MOTOR
DRIVE
(E-1)
IC503
DRUM
MOTOR
DRIVE
(D-11)
Q502
DRUM
ACCEL
(E-16)
W505
CFG GND
CFG Vcc
CFG (B)
CFG (A)
CAP W
CAP U
HE GND
WHE (+)
WHE (-)
HE Vcc
UHE (+)
UHE (-)
CAP V
VHE (+)
VHE (-)
W510
DRUM U
DRUM V
DRUM W
DRUM COM
GND
FG (COM)
FG (+)
PG (COM)
PG (+)
GND
FP-249 FLEXIBLE
FP-248 FLEXIBLE
FP-252 FLEXIBLE

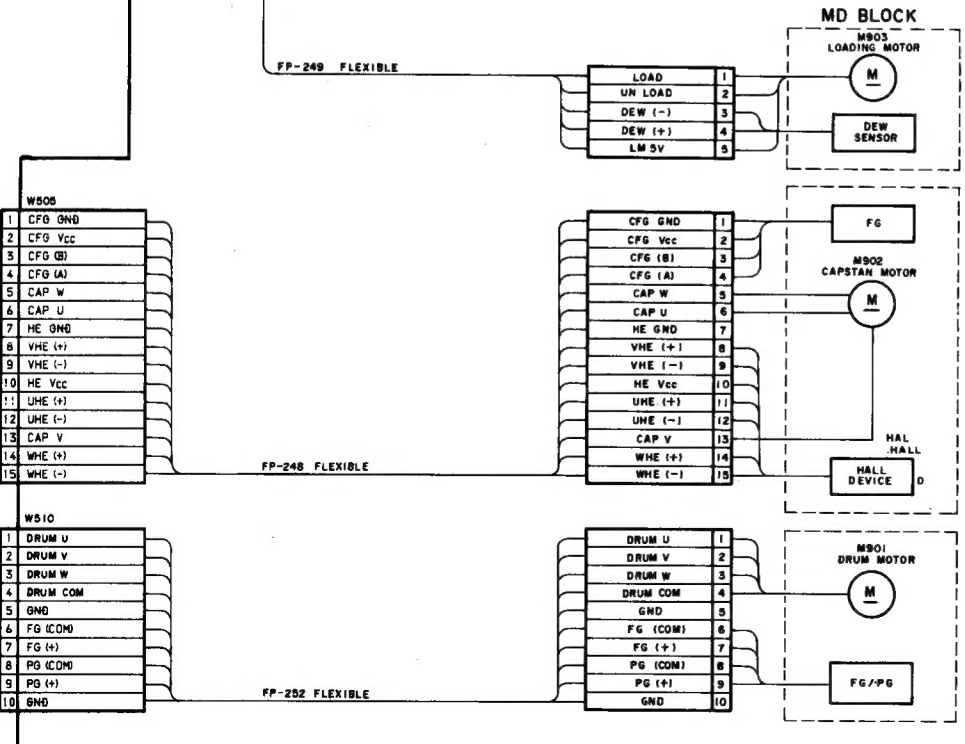

IC504
CAPSTAN MOTOR DRIVE
(E-1)
IC503
DRUM MOTOR DRIVE
(D-11)
(E-16)
Q502
DRUM ACCEL
IC502
DRUM FG/PG AMP
(G-25)
(E-17)
Q540
SILENCER
W505
CFG GND
CFG Vcc
CFG (B)
CFG (A)
CAP W
CAP U
HE GND
VHE (+)
VHE (-)
HE Vcc
UHE (+)
UHE (-)
CAP V
WHE (+)
WHE (-)
FP-248 FLEXIBLE
W510
DRUM U
DRUM V
DRUM W
DRUM COM
GND
FG (COM)
FG (+)
PG (COM)
PG (+)
GND
FP-252 FLEXIBLE
FP-249 FLEXIBLE
W102
VA PB MODE
FE ON
RAMP
ME/MP
SP/LP
E/L
DSWP
PCM SEL
PB PCM RF
PCM GND
RP PB ICH
RP PB 2CH
H CHG
CNI OUT
REC Y RF
PB RF OUT
REC AFM RF
REC C RF
VIDEO 4.9V
REC PCM RF
REC ATF RF
RP GND
FP-247 FLEXIBLE
BZ901
BUZZER
no mark: VTR REC / PB mode
( ): REC mode
< >: PB mode
* : can not be mesured
SS-136 BOARD

20 | 21 | 22 | 23 | 24 | 25 | 26 | 27

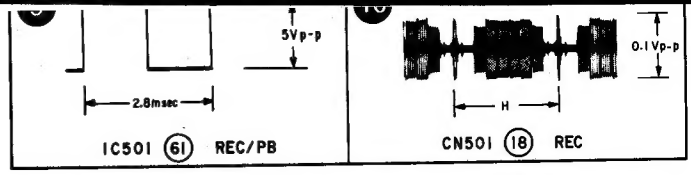
## SS-136 BOARD

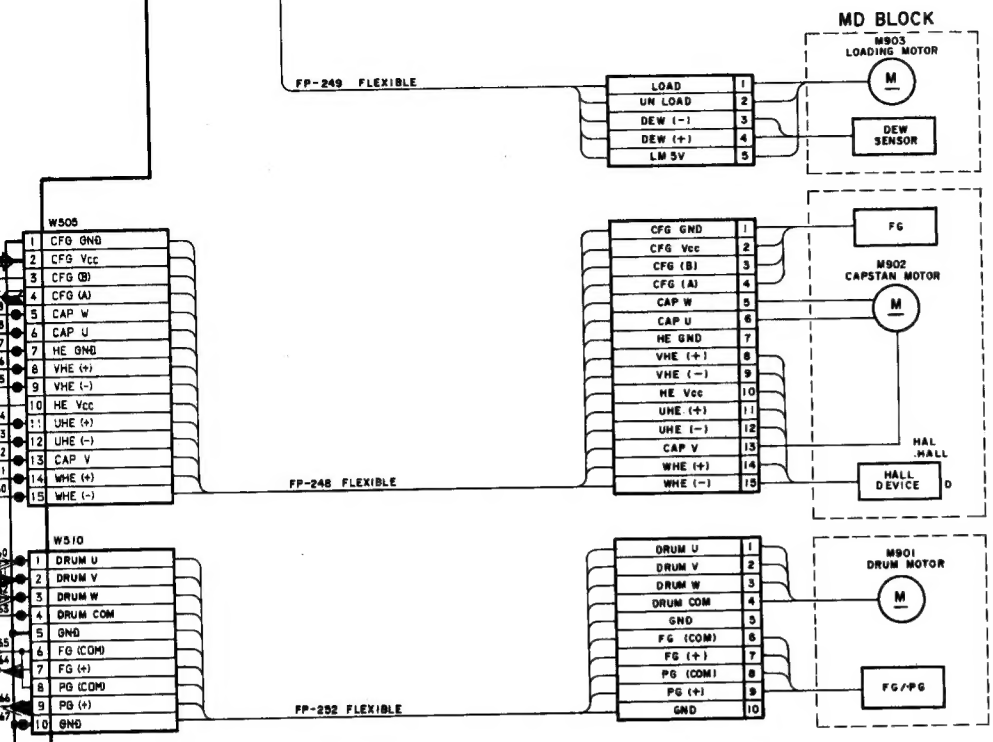


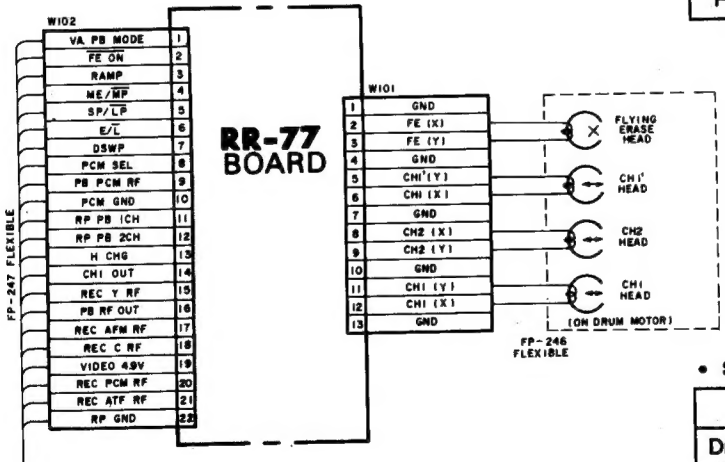

- **SIGNAL PATH**




- **SIGNAL PATH**

| | VIDEO SIGNAL | | | AUDIO SIGNAL |
|---|---|---|---|---|
| | CHROMA | Y | Y/CHROMA/DATA | |
| REC | ➡ | ➡ | | ➡ |
| PB | | | ⇨ | ⇨ |




- **SIGNAL PATH**

| | REC | REC/PB | PB |
|---|---|---|---|
| Drum speed servo | | ▷ | |
| Drum phase servo | | ▷▷ | |
| Drum servo (speed and phase) | | ▷▷▷ | |
| Capstan speed servo | | | |
| Capstan phase servo | | | |
| Capstan servo (speed and phase) | | ▷» | |
| Ref. signal | ▶ | | ▷ |